

.TITLE HIHO I/O DRIVING SEGMENT FOR REDAL 3 751216

REDAC SOFTWARE LIMITED

SUITE : P.C.B. LAYOUT
PROGRAM TITLE: REDAL 3 MARK 7
ROUTINE TITLE: HIHO

THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE TO THE
CUSTOMER: THE CONTENTS OR DETAILS OF ITS OPERATION MAY
ONLY BE DISCLOSED TO PERSONS EMPLOYED BY THE CUSTOMER WHO
REQUIRE A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT
THEIR JOB. DISCLOSURE TO ANY OTHER PERSON MUST HAVE PRIOR
AUTHORISATION FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED.

AUTHOR : D. J. ELLIS
DATE : 20TH FEBRUARY 1974

PURPOSE : TO DETERMINE THE TYPE OF INPUT OUTPUT FUNCTION
REQUIRED BY THE USER AND TO INITIATE THE APPROPRIATE SEGMENT
TO DEAL WITH THE REQUEST.

.EJECT

```

26 /
27 /7 CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS:
28 /
29 / JMS* HIHO
30 /
31 /8 I/O DEVICES AND FUNCTIONS:
32 /
33 / NONE
34 /
35 /9 REGISTERS USED:
36 /
37 / ACCUMULATOR
38 / LINK
39 / MULTIPLIER/QUOTIENT (EAE)
40 /
41 /10 EXTERNAL COMMON AREAS:
42 /
43 00000 R 000000 H PUSBY .CBD PUSBT 1
44 /
45 /12 EXTERNAL GLOBALS:
46 /
47 / ASDRIV
48 / MESS1
49 / BUTTON
50 / HIHO1
51 / HIHO2
52 / HIHO3
53 / HIHO4
54 /
55 /13 INTERNAL GLOBALS:
56 /
57 / HIHO SUBROUTINE NAME
58 /
59 /14 CONDITIONAL ASSEMBLY PARAMETERS:
60 /
61 / NONE
62 /
63 / .EJECT

```

64
65
66
67
68
69
70
71
72
73
74
75
76
77
78

15 THE POSITION OF THE DISPLAY BUFFER (RUSOUT) IN
THE COMMON AREA (XXX) IS COMPUTED AND A FIRST LEVEL MESSAGE TO THE
USER IS OUTPUT. A DISPATCH TABLE SELECTION OF HIS REQUEST LEADS
DIRECTLY TO THE REQUIRED FUNCTION EXCEPT IN THE CASE OF NON
DECIMATE INPUT WHEN A SECOND LEVEL MESSAGE IS OUTPUT AND A
SELECTION MADE ON THE REPLY TO THIS MESSAGE.
16 AMENDMENTS : 1) ADDITIONAL CALL TO GIVE SWOP LIGHTBUTTON
(OPT 7/74)
17 MODIFIED TO ALLOW DISC INPUT/OUTPUT *****
BY H BERGKVIST

.EJECT

```

79      .GLOBL ASDR1,MESS1,BUTTON,HIHO1,HIHO2,HIHO3,.DA
80      .GLOBL HIHO,HIHO4
81      00001 R 740040 A      HIHO  XX
82      00002 R 120261 E      JMS*   .DA
83      00003 R 600005 R      JMP     .+2
84      00004 R 000000 A      N      0
85      00005 R 220004 R      LAC*   N
86      00006 R 540262 R      SAD     (2      /SWOP SIDES IF PARAMETER IS 2
87      00007 R 600114 R      JMP     SWOP
88      00010 R 220000 R      LAC* PUSBY
89      00011 R 040117 R      DAC     PUSBUT
90      00012 R 160117 R      IPOP    DZM*   PUSBUT      /DISPLAY FIRST LEVEL OPTIONS
91      00013 R 200117 R      LAC     PUSBUT
92      00014 R 652000 A      LMQ
93      00015 R 200121 R      LAC     MESSA
94      00016 R 120260 E      JMS*   MESS1
95      00017 R 120253 E      JMS*   BUTTON      /READ USERS OPTION
96      00020 R 340120 R      TAD     DISPAT
97      00021 R 040022 R      DAC     .+1      /SET UP DISPATCH TABLE
98      00022 R 740040 A      DISPA  XX
99      00023 R 600031 R      JMP     IP      /INPUT OPTIONS
100     00024 R 600061 R      JMP     OP      /OUTPUT OPTIONS
101     00025 R 600064 R      JMP     DECTPE /DECTAPE OPTIONS
102     00026 R 600107 R      JMP     RK10    /RK INPUT-OUTPUT #1 *****
103     00027 R 600112 R      JMP     ASSIGN /ASSIGNMENT OPTIONS
104     00030 R 620001 R      JMP*    HIHO    /EXIT FROM ROUTINE
105     00031 R 160117 R      IP      DZM*   PUSBUT      /DISPLAY INPUT OPTIONS
106     00032 R 200117 R      LAC     PUSBUT
107     00033 R 652000 A      LMQ
108     00034 R 200162 R      LAC     MESSB
109     00035 R 120260 E      JMS*   MESS1
110     00036 R 120253 E      BUT     JMS*   BUTTON      /READ USERS OPTION
111     00037 R 540263 R      SAD     (1
112     00040 R 600050 R      JMP     IO1      /INITIAL DATA FROM PT
113     00041 R 540262 R      SAD     (2
114     00042 R 600053 R      JMP     IO2      /DUMPED DATA FROM PT
115     00043 R 540264 R      SAD     (3
116     00044 R 600056 R      JMP     IO3
117     00045 R 540265 R      SAD     (6
118     00046 R 600012 R      JMP     IPOP    /EXIT FROM THIS LEVEL
119     00047 R 600036 R      JMP     BUT
120     00050 R 120254 E      IO1     JMS*   HIHO1      /READ INITIAL DATA
121     00051 R 600012 R      JMP     IPOP
122     00052 R 000263 R      .DSA    (1
123     00053 R 120256 E      IO2     JMS*   HIHO3      /READ DUMPED DATA
124     00054 R 600012 R      JMP     IPOP
125     00055 R 000263 R      .DSA    (1
126     00056 R 120254 E      IO3     JMS*   HIHO1
127     00057 R 600012 R      JMP     IPOP
128     00060 R 000262 R      .DSA    (2
129     00061 R 120256 E      OP      JMS*   HIHO3      /NON DECTAPE OUTPUT OPTIONS
130     00062 R 600012 R      JMP     IPOP

```

```

131 00063 R 000262 R .DSA (2
132 00064 R 160117 R DECTPE DZM* PUSBUT /DISPLAY OPTIONS
133 00065 R 200117 R LAC PUSBUT
134 00066 R 652000 A LMG
135 00067 R 200221 R LAC MESSDT
136 00070 R 120260 E JMS* ME551
137 00071 R 120253 E BUTDT JMS* BUTTON /READ OPTION
138 00072 R 540264 R SAD (3
139 00073 R 600101 R JMP DTNEW
140 00074 R 540266 R SAD (4
141 00075 R 600104 R JMP DTOLD
142 00076 R 540265 R SAD (6
143 00077 R 600012 R JMP IPOP /EXIT
144 00100 R 600071 R JMP BUTDT /TRY AGAIN
145 /
146 /
147 00101 R 120255 E DTNEW JMS* H1H02 /DTNEW OPTION
148 00102 R 600012 R JMP IPOP
149 00103 R 000263 R .DSA (1
150 /
151 /
152 00104 R 120255 E DTOLD JMS* H1H02 /DTOLD OPTION
153 00105 R 600012 R JMP IPOP
154 00106 R 000267 R .DSA (0
155 /
156 /
157 00107 R 750000 A RK10 CLA
158 00110 R 120257 E JMS* H1H04
159 00111 R 600012 R JMP IPOP
160 00112 R 120252 E ASSIGN JMS* ASSIGN /ASSIGNMENT OPTIONS
161 00113 R 600012 R JMP IPOP
162 00114 R 120264 E SWOP JMS* H1H01 /SWOP SIDES
163 00115 R 600001 R JMP H1H0
164 00116 R 000267 R .DSA (0
165 .EJECT

```

PAGE	G	HIHO	SRC	HIHO	I/O DRIVING SEGMENT FOR REDAL 3 751216
166		00117	R 740040	A	PUSOUT XX
167		00120	R 600022	R	DISPAT JMP DISPA
168		00121	R 000122	R	MESSA .DSA .+1
169		00122	R 001750	A	1750: 0
		00123	R 000000	A	
170					BUTTON #3 AND #4 MOD #1 *****
171		00124	R 202270	A	.ASCII ' KEY OP. 1 I/P. 2 O/P. 3 DT I/O. 4 Disc I/O. 5.
		00125	R 554500	A	
		00126	R 476405	A	
		00127	R 420100	A	
		00130	R 305011	A	
		00131	R 127640	A	
		00132	R 261004	A	
		00133	R 031100	A	
		00134	R 475372	A	
		00135	R 026100	A	
		00136	R 201464	A	
		00137	R 042250	A	
		00140	R 202225	A	
		00141	R 747530	A	
		00142	R 201006	A	
		00143	R 420210	A	
		00144	R 446470	A	
		00145	R 320222	A	
		00146	R 276365	A	
		00147	R 420100	A	
		00150	R 324000	A	
		00151	R 000000	A	
172		00152	R 202032	A	.ASCII ' ASSIGN. 6 EXIT.
		00153	R 351622	A	
		00154	R 436345	A	
		00155	R 420100	A	
		00156	R 331010	A	
		00157	R 554222	A	
		00160	R 522760	A	
		00161	R 000000	A	
173		00162	R 000163	R	MESSA .DSA .+1
174		00163	R 001750	A	1750: 0
		00164	R 000000	A	
175		00165	R 202270	A	.ASCII ' KEY OP. 1 INIT PT. 2 DUMPED PT. 3 INIT CRD. 4.
		00166	R 554500	A	
		00167	R 476405	A	
		00170	R 420100	A	
		00171	R 305011	A	
		00172	R 147222	A	
		00173	R 521012	A	
		00174	R 052130	A	
		00175	R 201006	A	
		00176	R 220210	A	
		00177	R 526332	A	
		00200	R 042610	A	
		00201	R 202412	A	

176

177

178

179

00202 R 426100 A
 00203 R 201464 A
 00204 R 044634 A
 00205 R 446504 A
 00206 R 041644 A
 00207 R 421304 A
 00210 R 020150 A
 00211 R 260000 A
 00212 R 000000 A
 00213 R 201006 A
 00214 R 526100 A
 00215 R 201544 A
 00216 R 042660 A
 00217 R 446513 A
 00220 R 700000 A
 00221 R 000222 R
 00222 R 001750 A
 00223 R 000000 A
 00224 R 202270 A
 00225 R 554500 A
 00226 R 476405 A
 00227 R 420100 A
 00230 R 305304 A
 00231 R 020144 A
 00232 R 261004 A
 00233 R 031500 A
 00234 R 422504 A
 00235 R 047212 A
 00236 R 535304 A
 00237 R 020150 A
 00240 R 202112 A
 00241 R 420236 A
 00242 R 462105 A
 00243 R 420100 A
 00244 R 000000 A
 00245 R 000000 A
 00246 R 000000 A
 00247 R 000000 A
 00248 R 000000 A
 00249 R 000000 A
 00250 R 000000 A
 00251 R 000000 A
 00252 R 000000 A
 00253 R 000253 E *E
 00254 R 000254 E *E
 00255 R 000255 E *E
 00256 R 000256 E *E
 00257 R 000257 E *E
 00260 R 000260 E *E
 00261 R 000261 E *E
 00262 R 000003 A *L
 00263 R 000001 A *L
 00264 R 000003 A *L

.ASCII ' 5, 6 EXIT_'

MESSDT DSH 1750:171 SECOND LEVEL MESSAGE

.ASCII ' KEY OP, 1, 2, 3 DT NEW, 4 DT OLD, 5, 6 EXIT_'

END HIHO

00265 R 000006 A *L

00266 R 000004 A *L

00267 R 000000 A *L

SIZE=00270 NO ERROR LINES

PAGE 9 HIHO CROSS REFERENCE

ASDRIV	00252	79	160						
ASSIGN	00112	103	160*						
BUT	00036	110*	119						
BUTDT	00071	137*	144						
BUTTON	00253	79	95	110	137				
DECTPE	00064	101	132*						
DISPA	00022	98*	167						
DISPAT	00120	96	167*						
DTNEW	00101	139	147*						
DTOLD	00104	141	152*						
HIHO	00001	1	80	81*	104	163	180		
HIHO1	00254	79	120	126	162				
HIHO2	00255	79	147	152					
HIHO3	00256	79	123	129					
HIHO4	00257	80	158						
IO1	00050	112	120*						
IO2	00053	114	123*						
IO3	00056	116	126*						
IP	00031	99	105*						
IPOP	00012	90*	118	121	124	127	130	143	148
		153	159	161					
MESSA	00121	93	168*						
MESSB	00162	108	173*						
MESSDT	00221	135	177*						
MESS1	00250	79	94	109	136				
N	00004	84*	85						
OP	00061	100	129*						
PUSBUT	00117	43	89	90	91	105	108	132	133
		155*							
PUSBY	00000	43*	89						
RMIO	00107	101	159*						
SHOP	00114	107	160*						
TRA	00201	79	82						